FIG. 1

200

CPU

12-1

213

RAM | ROM | | ORQ | MDQ

202a | 202b | | 206 208

202

I/O — 204

TO NETWORK BUS

FIG. 2

302 | 304 | 306 | 308

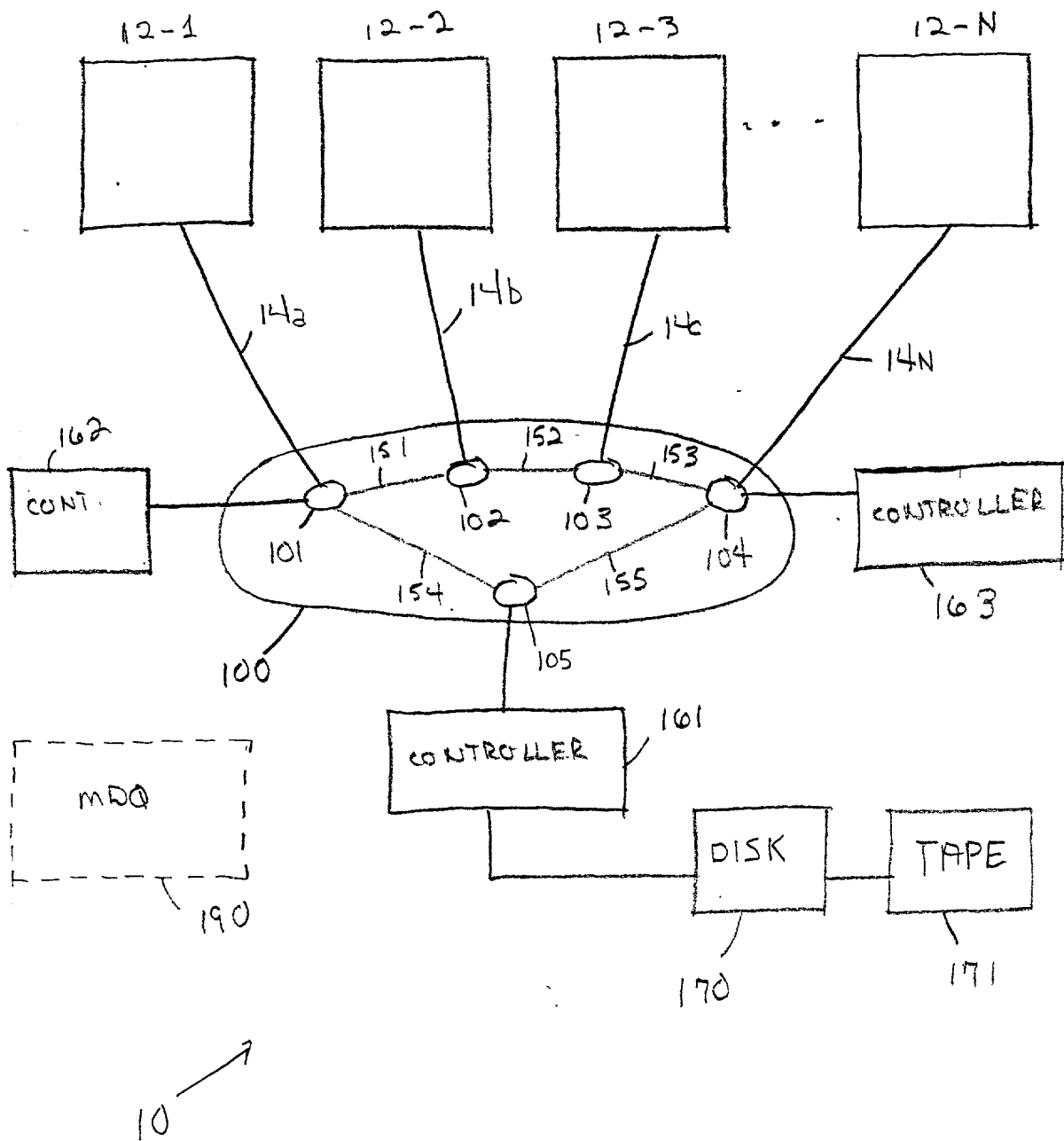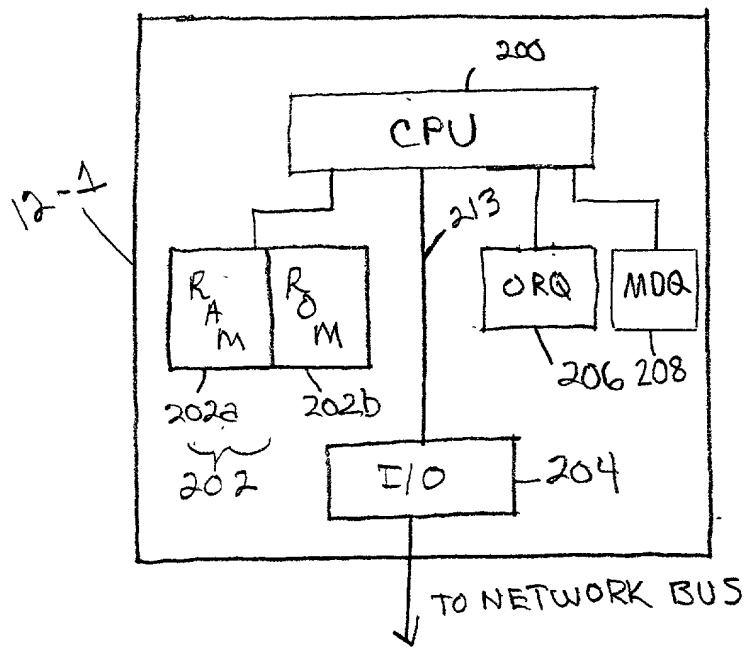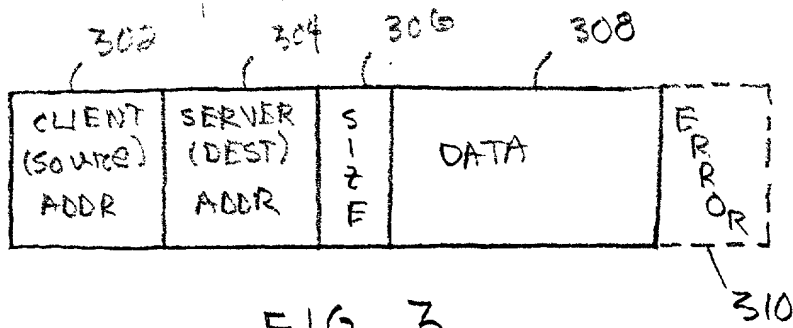| CLIENT (source) ADDR | SERVER (DEST) ADDR | SIZE | DATA | ERROR |

300

310

FIG. 3

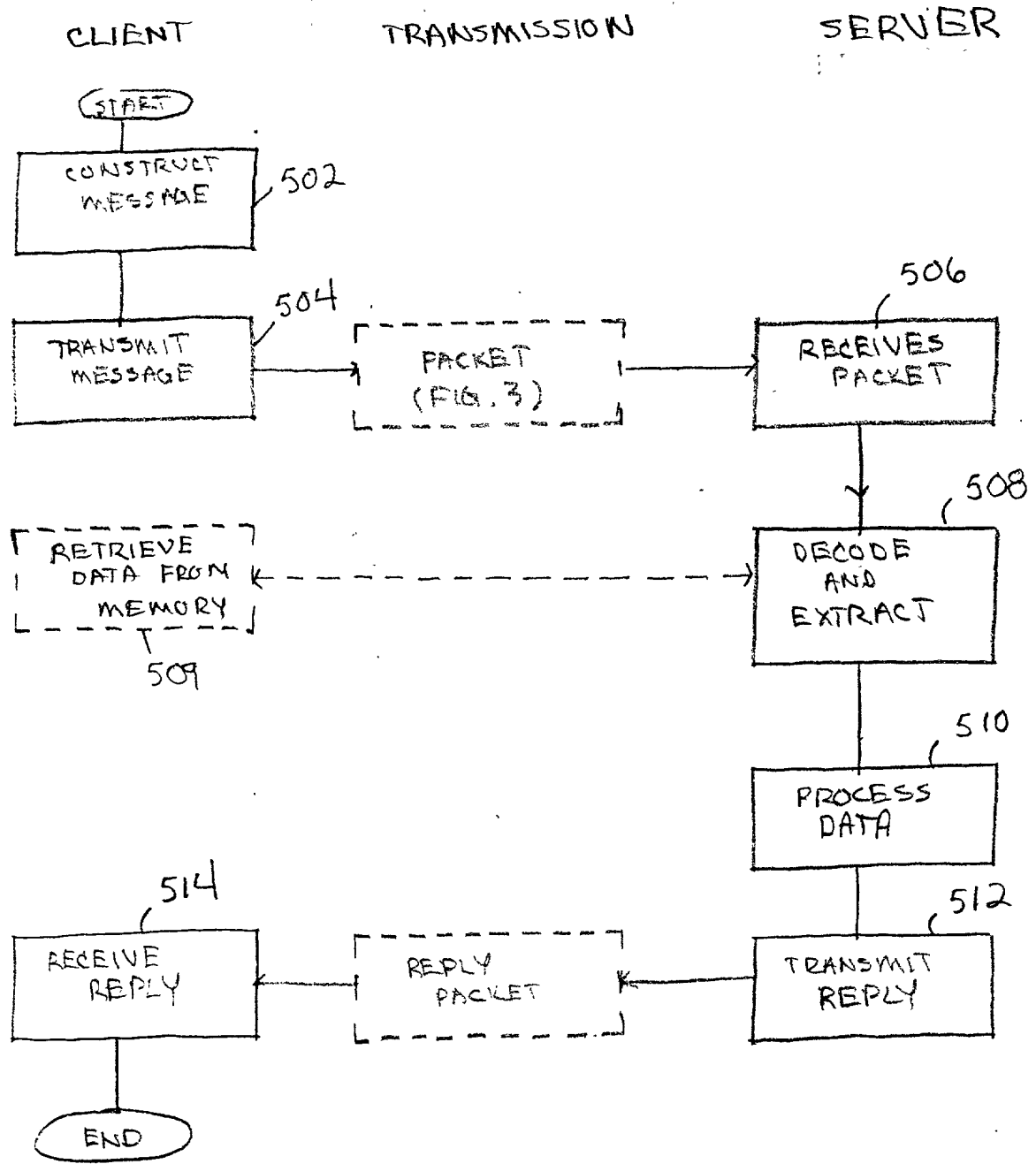| #	DEST ADDR	SIZE	TIME

206

402 | 404 | 406 | 408

FIG. 4

CLIENT   TRANSMISSION   SERVER

```
        ( START )

    ┌──────────────┐
    │  CONSTRUCT   │ — 502
    │   MESSAGE    │
    └──────────────┘

    ┌──────────────┐       ┌ ─ ─ ─ ─ ─ ─ ┐      ┌──────────────┐
    │  TRANSMIT    │─504   │   PACKET    │      │  RECEIVES    │─506
    │   MESSAGE    │────▶  │  (FIG. 3)   │────▶ │   PACKET     │
    └──────────────┘       └ ─ ─ ─ ─ ─ ─ ┘      └──────────────┘

                                                      │
                                                      ▼
    ┌ ─ ─ ─ ─ ─ ─ ┐                              ┌──────────────┐
    │  RETRIEVE   │                              │   DECODE     │─508
    │ DATA FROM   │◀ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─ ─│     AND      │
    │  MEMORY     │                              │   EXTRACT    │
    └ ─ ─ ─ ─ ─ ─ ┘                              └──────────────┘
           509                                          │
                                                        ▼
                                                ┌──────────────┐
                                                │   PROCESS    │─510
                                                │    DATA      │
                                                └──────────────┘

    ┌──────────────┐       ┌ ─ ─ ─ ─ ─ ─ ┐      ┌──────────────┐
    │  RECEIVE     │─514   │    REPLY    │      │  TRANSMIT    │─512
    │   REPLY      │◀ ─ ─ ─│   PACKET    │◀ ─ ─ │    REPLY     │
    └──────────────┘       └ ─ ─ ─ ─ ─ ─ ┘      └──────────────┘

       ( END )
```

FIG. 5

600

START

CONSTRUCT
MESSAGE — 602

TRANSMIT
MESSAGE OVER
NETWORK — 604

SAVE
TRANSMISSION
INFORMATION — 604a

INITIATE
COUNTER — 606

REPLY
RECEIVED
(?) — 608

Y   N

DELETE
ORQ
ENTRY — 610

TIME
ELAPSED
(?) — 611

N

ORQ
EMPTY
(?) — 612

N   Y

DELETE
OLDEST
ENTRY — 613

Y

DONE

FIG. 6